Appl. No. 10/792,038

Section II. (REMARKS)

The claims pending herein are 1, 2, 4-7, 10, 14, 15, 17-21, 53-57 and 59.

Allowable Subject Matter

In the October 19, 2007 Office Action, the Examiner objected to claims 7, formula G only, and claim

57, indicating that they would be allowable if each were rewritten in independent form. Applicants

acknowledge same.

Amendment to the Claims

Claim 1 has been amended to excise the species 2-mercaptobenzothiazole and mercaptobenzothiazole,

without prejudice, and to include the limitation that the oxirane species comprise a species selected

from the group consisting of: oxirane, methyl-, polymer with oxirane, ether with 2,2'-

(oxidoimino)bis(ethanol) (2:1), N(-3(C9-11-isoalkyloxy)propyl)derivatives, C_{10} -rich; and oxirane,

methyl-, polymer with oxirane, mono(octylphenyl)ether. Support for the oxirane addition can be

found in Formulations E, F, and G as filed. In addition, claim 1 was amended to correct the spelling of

2-mercaptobenzimidazole. Accordingly, no new matter has been added herein and no new search is

necessitated.

Claim 55 has been amended to remove the term "ACC" which was previously excised from claim 1,

from which claim 55 depends.

Request for Rejoinder Reminder

Applicants respectfully request rejoinder of method claims 24-31, 33-36, 39, 43-50, 58 and 59 upon

allowance of the pending composition claims 1-2, 4-7, 10, 14, 15, 17-21 and 53-57.2 Towards that

end, withdrawn method claim 24 has been amended in a manner consistent with pending composition

claim 1.

Objection under 35 U.S.C. §132(a)

² Rejoinder was previously requested in the response to the April 18, 2005 Office Action, filed April 27, 2005.

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In the October 19, 2008 Office Action, the Examiner objected to claim 1 for introducing new matter

into the disclosure. Specifically, the Examiner indicated that the broad language "oxirane species"

finds no support and raises issues of new matter.

Applicants have amended claim 1 to further recite that the oxirane species comprise a species selected

from the group consisting of: oxirane, methyl-, polymer with oxirane, ether with 2,2'-

(oxidoimino)bis(ethanol) (2:1), N(-3(C9-11-isoalkyloxy)propyl)derivatives, C₁₀-rich; and oxirane,

methyl-, polymer with oxirane, mono(octylphenyl)ether, thereby obviating this objection. Withdrawal

of same is respectfully requested.

Double Patenting Rejection Under the Judicially Created Doctrine of Obviousness-Type Double

Patenting

In the October 19, 2007 Office Action, the Examiner rejected claims 1, 2, 4-7, 9-10, 14-15, 17-21 and

53-57 under the judicially created doctrine of obviousness-type double patenting. Specifically, the

Examiner stated that said claims are:

"unpatentable over claims 1-7, 9-17, 21-22 and 33-48 as amended on 17 August 2007 of co-pending application No. 10/389,214 (and its

teachings and suggestions in the specification on at least paragraphs 9, 12, 13, 17, 18, 21, 23, Examples 2, 4 and 5). Applicants, assignee and their counsel may and should disagree, urge and state on and for

the record that each of the claims as originally filed is self sufficient. There has not been and will not be relied on any embodiment and any application for any purpose) considered in view of En et al

(2004/0134682)." (see the October 19, 2007 Office Action, the

paragraph bridging pages 4-5).

Although the punctuation of the foregoing paragraph, which was copied verbatim, is confusing, it

appears as though En et al. is being used as a secondary reference in the judicially created

obviousness-type double patenting rejection. Applicants acknowledge same.

According to MPEP 804 (I)(B)(1):

"If the [obviousness-type double patenting] rejection is the only rejection remaining in the later-filed application, while the earlier-

filed application is rejectable on other grounds, a terminal disclaimer

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must be required in the later-filed application before the rejection can

be withdrawn."

It is noted that the earlier co-pending application, U.S. Patent Application No. 10/389,214 is still

pending.

If in the future, co-pending U.S. Patent Application No. 10/389,214 remains rejectable on other

grounds, the obviousness-type double patenting rejection is the only rejection remaining to the

presently pending case AND the presently pending claims are an obvious variation of the invention

defined in claims 1-7, 9-17, 21-22 and 33-48 of co-pending U.S. Patent Application No. 10/389,214 in

view of En et al. (which can only be objectively assessed when the only rejection remaining in the

presently pending case is the obviousness-type double patenting rejection), applicants will submit the

required terminal disclaimer.

Rejection of Claims and Traversal Thereof

In the October 19, 2007 Office Action:

claims 1, 2, 4-7, 9-10, 14-15, 17-21 and 53-57 were rejected under 35 U.S.C. §112, first paragraph;

claims 1, 2, 5, 10, 14-15, 17, 19-21, 53 and 56 were rejected under 35 U.S.C. §102(e) as anticipated

by, or, in the alternative under 35 U.S.C. §103(a) as being unpatentable over Hsu (U.S. Patent

Application Publication No. 20050176603);

claims 1, 2, 4, 5, 10, 14-15, 19-21, 53 and 56 were rejected under 35 U.S.C. 103(a) as being

unpatentable over Ichiki (U.S. Patent Application Publication No. 20010021488) in view of En et al.

(U.S. Patent Application Publication No. 20040134682) and Hsu; and

claims 1, 2, 5, 10, 14-15, 17, and 53 were rejected under 35 U.S.C. 103(a) as being unpatentable over

Yokoi et al. (U.S. Patent Application Publication No. 20070003859) in view of En et al. and Hsu.

These rejections are traversed and reconsideration of the patentability of the pending claims is

requested in light of the following remarks.

Rejections under 35 U.S.C. §112, first paragraph

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In the October 19, 2007 Office Action, claims 1, 2, 4-7, 9-10, 14-15, 17-21 and 53-57 were rejected

under 35 U.S.C. §112, first paragraph. Specifically, the Examiner indicated that the broad language

"oxirane species" finds no support in the specification.

As introduced hereinabove, applicants have amended claim 1 to further recite that the oxirane species

comprise a species selected from the group consisting of: oxirane, methyl-, polymer with oxirane,

ether with 2,2'-(oxidoimino)bis(ethanol) (2:1), N(-3(C9-11-isoalkyloxy)propyl)derivatives, C₁₀-rich;

and oxirane, methyl-, polymer with oxirane, mono(octylphenyl)ether, thereby obviating this objection.

Withdrawal of same is respectfully requested.

Rejections in view of Hsu

In the October 19, 2007 Office Action, claims 1, 2, 5, 10, 14-15, 17, 19-21, 53 and 56 were rejected

under 35 U.S.C. §102(e) as anticipated by, or, in the alternative under 35 U.S.C. §103(a) as being

unpatentable over Hsu (U.S. Patent Application Publication No. 20050176603). Applicants traverse

such rejection.

As introduced in the response to the July 9, 2007 Office Action, Hsu has a filing date of November 5,

2004 and a priority date of February 11, 2004 (U.S. Provisional Patent Application No. 60/543,801).

In the Declaration under 37 CFR 1.131 (hereinafter the "131 Declaration") filed in August 17, 2006,

applicants attested to conception and reduction to practice of the presently claimed invention prior to

such of the earliest claimed June 18, 2003 date of Yokoi '761. Importantly, Yokoi '761 actually

predates Hsu, and as such, the conception and reduction of practice of the presently claimed invention

was clearly before the earliest claimed February 11, 2004 date of Hsu.

In response, the Examiner stated that:

"the submission evidences under Rule 131 filed on 10 September

2007 have been fully considered but are insufficient to cover each of all embodiments as applied in Hsu, at least the applied "2-

mercaptobenzothiazole and 2-mercaptobenzimidazole." (see, the

October 19, 2007 Office Action, page 7, lines 14-17).

Applicants have submitted herewith a Declaration under 37 CFR 1.132 (hereinafter the "132

Declaration," see Appendix A) whereby the inventors attest to the fact that the acronym "2-MBI"

Appl. No. 10/792,038

used in the 131 Declaration dated August 17, 2006 corresponds to "2-mercaptobenzimidazole" and

that the evidence provided in the 131 Declaration predates the earliest claimed February 11, 2004 date

of Hsu. Accordingly, the 131 Declaration dated August 17, 2006 was evidence of the completion and

possession of the cleaning compositions disclosed and claimed herein.

Further, applicants amended claim 1 to excise "2-mercaptobenzothiazole" and

"mercaptobenzothiazole" without prejudice.

Accordingly, withdrawal of the rejection of claims 1, 2, 5, 10, 14-15, 17, 19-21, 53 and 56 as being

anticipated by and/or obvious in view of Hsu is respectfully requested.

Rejections under 35 U.S.C. §103(a)

In the October 19, 2007 Office Action, (a) claims 1, 2, 4, 5, 10, 14-15, 19-21, 53 and 56 were rejected

under 35 U.S.C. 103(a) as being unpatentable over Ichiki (U.S. Patent Application Publication No.

20010021488) in view of En et al. (U.S. Patent Application Publication No. 20040134682)

(hereinafter En) and Hsu, and (b) claims 1, 2, 5, 10, 14-15, 17, and 53 were rejected under 35 U.S.C.

103(a) as being unpatentable over Yokoi et al. (U.S. Patent Application Publication No. 20070003859)

(hereinafter Yokoi) in view of En and Hsu. Applicants traverse such rejections.

In both cases, the Examiner admitted the reliance on Hsu for the 2-mercaptobenzimidazole teaching

(see, e.g., the October 19, 2007 Office Action, page 9, lines 8-13 and page 11, lines 8-13), however,

the Hsu teaching, with regards to the 2-mercaptobenzimidazole, is not considered prior art and as such,

Hsu cannot be relied on for establishing a prima facie case of obviousness.

Accordingly, withdrawal of these rejections under §103 is respectfully requested.

Petition for Extension of Time/Fees Payable

Applicants hereby petition for a one (1) month extension of time, extending the deadline for

responding to the October 19, 2007 Office Action from January 19, 2008 to February 19, 2008. The

fee of \$120.00 specified in 37 CFR §1.17(a)(1) for such one (1) month extension is hereby enclosed.

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The total fee of \$120.00 is being paid by Electronic Funds Transfer. Authorization is hereby given to charge any deficiency in applicable fees for this response to Deposit Account No. 13-4365 of Moore & Van Allen PLLC.

Conclusion

Claims 1, 2, 4-7, 10, 14, 15, 17-21, 53-57 and 59 are in form and condition for allowance. If any additional issues remain, the Examiner is requested to contact the undersigned attorney at (919) 286-8090 to discuss same.

Respectfully submitted,

MOORE & VAN ALLEN PLLC

Date: February 19, 2008

By: Tristan Anne Fuierer

Registration No. 52,926 Moore & Van Allen PLLC

430 Davis Drive, Suite 500 Morrisville, NC 27560-6832

Telephone: (919) 286-8000 Facsimile: (919) 286-8199

Docket No.: 020732-97.668 (7493) Appl. No. 10/792,038

APPENDIX A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re United States Patent Application of:

020732-97.668 Docket No.:

(7493)

Applicants:

RATH, Melissa K., et al.

4823

Application No.:

10/792,038

1795

Date Filed:

March 3, 2004

Examiner:

Conf. No.:

Art Unit:

LE, Hoa Van

Title:

COMPOSITION AND PROCESS FOR

Customer No.:

24239

POST-ETCH REMOVAL OF

PHOTORESIST AND/OR

SACRIFICIAL ANTI-REFLECTIVE MATERIAL DEPOSITED ON A

SUBSTRATE

DECLARATION UNDER 37 CFR §1.132 IN U.S. PATENT APPLICATION NO. 10/792,038

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

MICHAEL B. KORZENSKI, and THOMAS H. BAUM hereby declare:

- THAT we are co-inventors of the subject matter disclosed and elected in United States Patent 1. Application No. 10/792,038 filed March 3, 2004 in the names of Melissa K. Rath, David D. Bernhard, David W. Minsek, Michael B. Korzenski, and Thomas H. Baum and entitled, PROCESS FOR POST-ETCH REMOVAL OF "COMPOSITION AND PHOTORESIST AND/OR SACRIFICIAL ANTI-REFLECTIVE MATERIAL DEPOSITED ON A SUBSTRATE," hereafter referred to as the "Application."
- THAT the Application relates to compositions and processes for removing photoresist and/or 2. sacrificial anti-reflective coating (SARC) from a substrate having said materials thereon. The elected claims relate generally to a cleaning composition including a quaternary base, at least one alkali or alkaline earth base, and at least one additional component selected from the group consisting of a chelator, an exirane species, and combinations thereof.

- 3. THAT the undersigned executed a Declaration under 1.131 (hereafter "the 131 Declaration") on August 14, 2006 as evidence of the completion and possession of the cleaning compositions disclosed and claimed in the Application prior to June 18, 2003 (see Exhibit A for a copy of the 131 Declaration).
- THAT the undersigned do hereby declare that the acronym "2-MBI" used throughout the
 131 Declaration corresponds to 2-mercaptobenzimidazole.
- 5. THAT we are aware that the Application has been examined by the United States Patent and Trademark Office and the claims of the Application have been rejected on various grounds including the disclosure of:
 - Chien-Pin Sherman Hsu (U.S. Patent Application Publication No. 2005/0176603) (hereinafter "the Hsu reference") filed on November 5, 2004, based on U.S. Provisional Application No. 60/543,801, filed February 11, 2004.
- 6. THAT the 131 Declaration previously submitted was evidence of the completion and possession of the cleaning compositions disclosed and claimed in the Application prior to June 18, 2003. Accordingly, the 131 Declaration is also evidence of the completion and possession of the cleaning compositions disclosed and claimed in the Application prior to the Hsu priority date of February 11, 2004.

As a below-named declarant, I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements, and the like, so made are punishable by fine or imprisonment, or both, under Section 1001 or Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

MICHAEL B. KORZENSKI

Thomas H Baren Date 2-19-08

THOMAS H. BAUM

EXHIBIT A

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AUG. 15. 2006 11:51AM ATML (203) 830-2123

NO. 4519 P. 2

IN THE JINITED STATES PATENT AND TRADEMARK OFFICE

In re United States Patent Application of		Docket No.:	020732-97,668 (7493)
Applicants	RATH, Melissa K., et al.	Çênî, No.:	4823
Application No.:	10/792,038	Art Unit:	1752
Date Blied:	March 3, 2004	Examiner:	LE, Hoz Veh
Tide:	COMPOSITION AND PROCESS FOR POST-ETCH REMOVAL OF PHOTORESIST AND/OR SACRIFICIAL ANTI-REFLECTIVE MATERIAL DEPOSITED ON A SUBSTRATE	Customer No.2)))))	24239

DECLARATION UNDER 97 CFR \$1.131 IN U.S. PATENT APPLICATION NO. 10/792,038

Mail Stop Amendment Commissioner for Peters P.O. Box 1460 Alexandria, VA 22313-1450

Sir

MELISSA, K., RATH, DAVID D. BERNHARD, DAVID W. MINSEK, MICHAEL B. KORZENSKI, and THOMAS H. BAUM hereby declared

- THAT we are co-inventors of the subject matter disclosed and elected in United States
 Patent Application No. 10/792,038 filed March 3, 2004 in the namer of Medicas K. sub,
 David D. Bernhard, David W. Minsek, Michael B. Korzenski, and Thomas H. Baum and
 entitled, "COMPOSITION AND PROCESS FOR POST-ETCH REMOVAL OF
 PHOTORESIST AND/OR SACRIFICIAL ANTI-REFLECTIVE MATERIAL
 DEPOSITED ON A SUBSTRATE," hereafter referred to so the "Application."
- Triat the Application relates to compositions and processes for removing photoresist analor sacrificial anti-reflective coating (RARC) from a substate having said meterials thereon. The elected claims specifically relate to the following composition:

NO. 4519 P. 3

AUG. 15. 2006 11:52AM AT

ATMI (203) 830-2123

 A cleaning composition including an active cleaning combination (ACC), wherein said ACC convists of a quaterpary base in combination with at least one of alkali and alkaline earth base and said cleaning composition is useful for removing phototesis und/or anxietical anti-reflective cosing (SARC) materials from a substrate having such material(s) thereon.

- That we are aware that the Application has been examined by the United States Patent and Trademark Office and the claims of the Application have been rejected on various grounds including the disclosum of:
 - Yokoi, et al. (U.S. Patent Application Publication No. 2004/0259761) (hereinofter "the Yokoi reference") filed on June 10, 2004, based on U.S. Provisional Application No. 60/479,146, filed June 18, 2003, the content of which is unknown because it was filed in Japanese (hereinafter "the Yokoi Provisional Application").
 - 3. THAT Extition A stached berewith feeducies two and crack copies of pages of David D. Bernhard's and Meliasa K. Ruth's laboratory notebooks, and that all concepts, experiments and acts disclosed on the laboratory notebook pages were conducted in the United States before the filing date of the Yokni Provisional Application check investments.
 - 4. THAT all the dates have been blacked out on the attached laboratory notebook pages but all dates are prior to the date of June 18, 2003, which is the filing date of the Yokoi Provisional Application, that information on the laboratory notebook pages that may not be in the public damain has been reducted; and that every one of the attached laboratory notebook pages (Appendix A) discloses a competition including an active cleaning composition (ACC), whereat said ACC consists of a quantum y base in combination with at least one of alkall and alkaline can't have. Thus, the combination of disclosures described herein, provides ample support for the presently claimed invention.
 - 5. THAT we offer Exhibit A with this Declaration as evidence of the completion and possession of the cleaning compositions disclosed and claimed in the Application prior to the June 18, 2003 date of the Yokof Provisional Application reference.

Molless K. Murphy has reasonned her meiden name "Rath"

² assuming that the Yekoi Provisional Application enables the Yokoi reference.

AUG. 15. 2006 11:53AM

ATML (203) 830-2123

NO. 4519 P. 4

As a below-named declarant, I betchy declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements, and the like, so made are punichable by fine or imprisonment, or both, under Section 1001 or Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent land thereon.

Melin K. P.R.	Date 8/14/06
melissa k, rath	1400
	Date
DAVID D. BERNHARD	
Durch Mungh	Date 2/14/06
DAVID W. MINSER	. - 7 / -
Will & Kel	Data 8/14/06
MICHAEL B, KORZENSKI	· · · /·· / -·
- Thomas H Brun	Date 8=14=06
THOMAS II HAVIM	

As a below-named declarant, I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements, and the like, so made are punishable by fine or imprisonment, or both, under Section 1001 or Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

	Date
MELISSAK, RATH	Date 8/15/06
DAVID D, BERNHARD	
DAVID W. MINSEK	
	Detc
MICHAEL B, KORZENSKI	•
THOMAS H. BAUM	

AUG. 15. 2006 11:53AM ATMI (203) 830-2123

NO. 4519 P. 5

EXHIBIT A





